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November 7, 2005

Ms. Joan Fleck
California Regional Water Quality Control Board
North Coast Region
5550 Skylane Blvd., Suite A
Santa Rosa, California 95403

Subject: **Third Quarter 2005 Groundwater Monitoring Report**
Former Dave's Pit Stop #1
164 Calistoga Road, Santa Rosa, California
Apex Project No. ERA02 028

Dear Ms. Fleck:

Apex Envirotech, Inc. (Apex), has been authorized by Dave's Pit Stop (Pit Stop) to provide this report documenting the results of groundwater monitoring. This report covers site activities for the third quarter groundwater sampling event conducted on September 14, 2005. Groundwater monitoring results are provided in the attached figures and tables. Apex standard operating procedures, field data, and analytical results are provided as attachments.

This report is based in part on information obtained by Apex from Pit Stop, and is subject to modification as newly acquired information may warrant

BACKGROUND

The site is located approximately 500 feet north of the intersection of California Highway 12 and Calistoga Road in the City of Santa Rosa, California. Facilities at this location currently house an automobile repair shop. The site was formerly used as a retail gasoline service station.

1989 - One 550-gallon used-oil underground storage tank (UST) and associated piping were excavated and removed from the site. Soil samples collected from beneath the tank contained detectable concentrations of petroleum hydrocarbons.

June 1990 - Subsurface investigation began at the site.

1996 - Four shallow groundwater monitoring wells existed on the site (MW-1 through MW-4).

February 1999 - One 6,000 and two 10,000-gallon gasoline USTs and two fuel dispenser islands were excavated and removed from the site. Approximately 1,003 tons of petroleum hydrocarbon contaminated soil was over excavated from the UST pit. Following removal, this material was transported off-site for disposal. A total of 70,000 gallons of hydrocarbon contaminated groundwater was removed from the UST pit to facilitate UST removal, over excavation, and backfilling activities at the site. The UST pit was closed with clean imported fill. The site does not currently possess fueling capabilities or equipment.

June 21, 2001 - The North Coast Regional Water Quality Control Board (NCRWQCB) issued a letter requesting a sensitive receptor survey including a 1,000 foot door to door survey and MTBE plume vertical and horizontal definition.

January 3, 2002 - Apex personnel supervised the installation of groundwater monitoring well MW-5 and the installation of three deep wells (DW-1 through DW-3).

November 2002 - Apex was retained as the site environmental consultant.

September 29, 2003 - Apex personnel conducted a well search with the Department of Water Resources and on October 1, 2003, and conducted a door-to-door survey within 1,000 feet of the site. Seventeen wells were identified. Results are documented in a report, *Sensitive Receptor Survey*, dated November 12, 2003.

December 9, 2004 - The NCRWQCB issued a letter requesting a workplan be prepared addressing the remaining groundwater and surface water impacts, as well as a request to sample the domestic well at 184 Calistoga Road. The domestic well sampling results were below detection limits.

February 21, 2005 - Apex submitted a workplan, *Workplan for the Installation of Ozone Sparge Remediation System*, proposing the installation of six sparge points and KVA C-Sparge system to address remaining groundwater contamination.

May 11, 2005 - The NCRWQCB issued a letter approving the workplan with recommendations to increase the depth of the sparge points to beyond 40 feet bgs, and determine baseline parameters for dissolved oxygen, ORP, temperature, pH, bromide, bromate, dissolved hexavalent, dissolved chromium, dissolved vanadium, dissolved selenium and dissolved molybdenum. In addition, Apex has been directed to distribute a public notice regarding the proposed corrective action.

GENERAL SITE INFORMATION

Site name: Former Dave's Pit Stop #1
Site address: 164 Calistoga Road, Santa Rosa, California
Current property owner: Mr. Dave Zedrick
Current site use: None
Current phase of project: Groundwater monitoring
Tanks at site: None
Number of wells: 8 monitoring wells (5 shallow, 3 deep)

GROUNDWATER MONITORING SUMMARY

Gauging and sampling date: September 14, 2005
Wells gauged and sampled: MW-1, MW-2R, MW-3, MW-4, MW-5, DW-1, DW-2 and DW-3
Wells gauged only: None
Wells sampled only: None
Groundwater flow direction: Shallow: West, Deep: Northeast
Groundwater gradient: Shallow: 0.017 ft/ft; Deep: 0.080 ft/ft
Surface water samples: dry
Floating liquid hydrocarbons: None
Laboratory: Kiff Analytical, Davis, California

Analysis Performed:

Analysis	Abbreviation	Designation	USEPA Method No.
Total Petroleum Hydrocarbons as Gasoline	TPHg	Fuel-Range Hydrocarbons	
Benzene	BTEX	Aromatic Volatile Organics	8260B
Toluene			
Ethylbenzene			
Xylenes (Total)			
Methyl Tertiary Butyl Ether	MTBE	Fuel Oxygenate	

Modifications from Standard Monitoring Program:

Creek samples were not collected due to the creek being dry.

CONCLUSIONS

Shallow Wells

Groundwater analytical results indicate that BTEX constituents were below laboratory detection limits at all five shallow groundwater monitoring wells.

Groundwater analytical results indicate that TPHg was present in four of the wells (MW-1, MW-2R, MW-3 and MW-4). Concentrations ranged from 89 to 700 micrograms per liter (ug/L). These concentrations are within historical limits for these wells, though the laboratory did note that samples at wells MW-2R, MW-3 and MW-4 did not exhibit typical chromatographic patterns for TPHg.

Groundwater analytical results indicate that MTBE was present in all five of the wells (MW-1, MW-2R, MW-3, MW-4 and MW-5). Concentrations ranged from 0.62 ug/L to 55 ug/L, and are within historical limits, with the exception of concentration of 1.0 ug/L at well MW-3 which represent historical low for this well. In addition, MTBE concentrations at wells MW-1, MW-2R, MW-3 and MW-5 are below the California Primary Maximum Contaminant Level (MCL) of 13 ug/L. In addition, concentrations of MTBE at wells MW-2R, MW-3 and MW-5 are below the California Secondary MCL of 5.0 ug/L.

Shallow zone groundwater elevations decreased an average of 3.33 feet this quarter compared with the last sampling event.

Deep Wells

Deep zone wells DW-2 and DW-3 were non detect for all analyzed constituents.

Groundwater analytical results indicate that MTBE was present in well DW-1 at a concentration of 23 ug/L. Concentrations within this well have been decreasing and represent a historical low for this well.

Deep zone groundwater elevations decreased an average of 2.18 feet this quarter compared with the last sampling event.

Concentrations of hydrocarbons at the site have been decreasing, and are illustrated in the attached concentration versus time trend plots.

RECOMMENDATIONS

Groundwater monitoring and creek sampling should continue on a quarterly basis. The next sampling event is scheduled for December 2005.

Apex is currently designing and permitting the installation of an ozone sparge remediation system for the site.

ADDITIONAL ACTIVITIES PERFORMED AT SITE

None

ATTACHMENTS:

Figure 1: Site Vicinity Map

Figure 2: Site Plan Map

Figure 3: Shallow Zone Groundwater Contour Map: September 14, 2005

Figure 4: Deep Zone Groundwater Contour Map: September 14, 2005

Figure 5: Shallow Zone TPHg in Groundwater Isoconcentration Map: September 14, 2005

Figure 6: Shallow Zone MTBE in Groundwater Isoconcentration Map: September 14, 2005

Figure 7: Deep Zone MTBE in Groundwater Isoconcentration Map: September 14, 2005

Table 1: Well Construction Details

Table 2: Groundwater Elevation Data

Table 3: Groundwater Analytical Data

Table 4: Historical Groundwater Elevation Data

Table 5: Historical Groundwater Analytical Data

Appendix A: Apex Standard Operating Procedures

Appendix B: Field Data Sheets

Appendix C: Laboratory Analytical Report and Chain-of-Custody Form

Appendix D: Concentration versus Time Trends

REPORT DISTRIBUTION

Apex submitted this report, in its final form, to the following:

Regulatory Oversight: Ms. Joan Fleck
California Regional Water Quality Control Board
North Coast Region
5550 Skylane Blvd , Suite A
Santa Rosa, California 95403
(707) 576-2675

Mr. Bob Mackentyre
Santa Rosa Fire Department
955 Sonoma Avenue
Santa Rosa, California 95404
(707) 543-3500

Responsible Party: Mr. Dave Zedrick
Dave's Pit Stop
P.O. Box 7010
Santa Rosa, California 95407
(707) 528-3677

REMARKS/SIGNATURES

The information contained in this report reflects our professional opinions and was developed in accordance with currently available information, and accepted hydrogeologic and engineering practices.

The work described in the above report was performed under the direct supervision of a professional geologist, registered with the State of California, whose signature appears below.

We appreciate the opportunity to provide Pit Stop with geologic, engineering, and environmental consulting services, and trust this report meets your needs. If you have any questions or comments, please call us at (916) 851-0174.

Sincerely,

APEX ENVIROTECH, INC.

Kelli Westrup
Rebekah A. Westrup
Project Manager

Michael Sgourakis
Michael S. Sgourakis, R.G.
Senior Geologist
CRG No. 7194



FIGURES



Approximate Scale
1 inch = 0.25 miles



DRAWN BY: D. Alston
DATE: 1/27/03

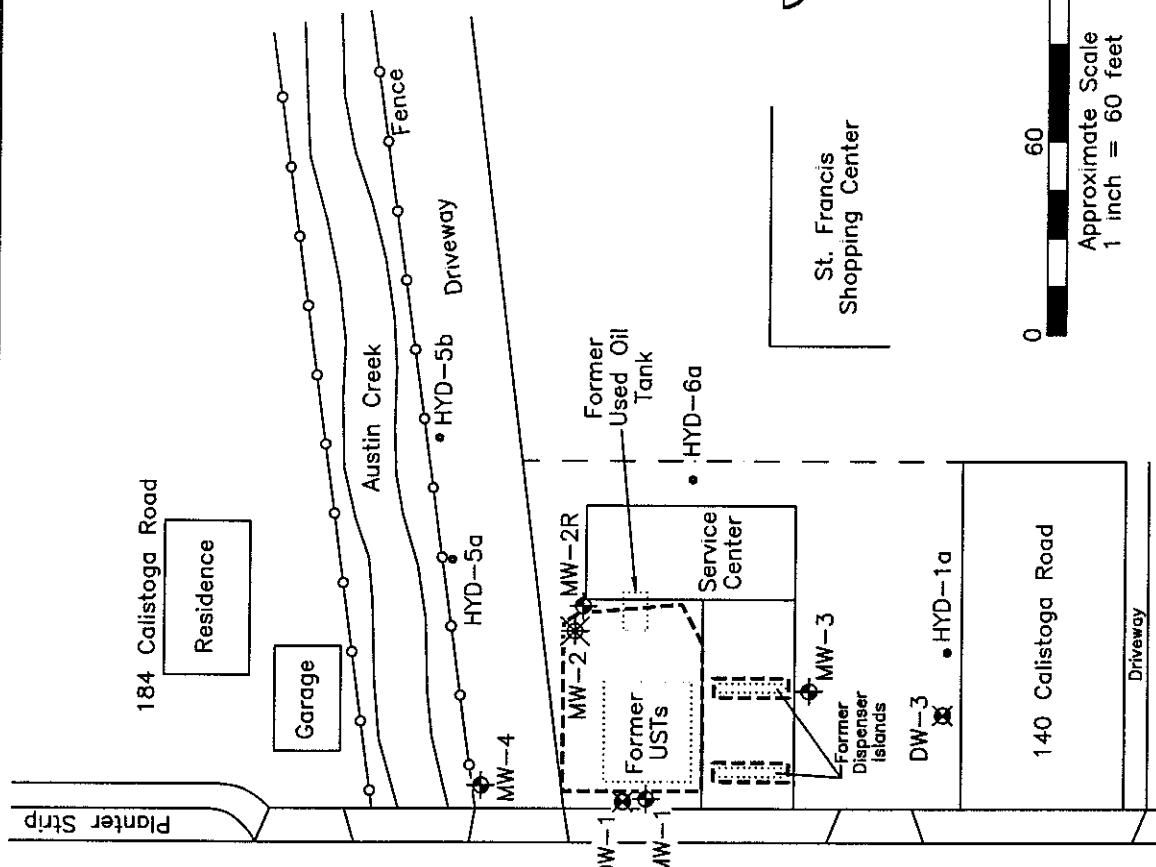
SITE VICINITY MAP

Former Dave's Pit Stop No. 1
164 Calistoga Road
Santa Rosa, California

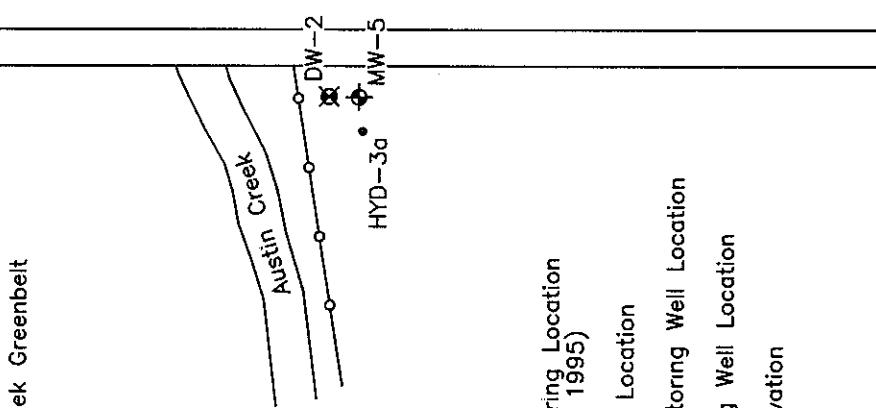
FIGURE

1

PROJECT NUMBER:
ERA02.028



CALISTOGA ROAD



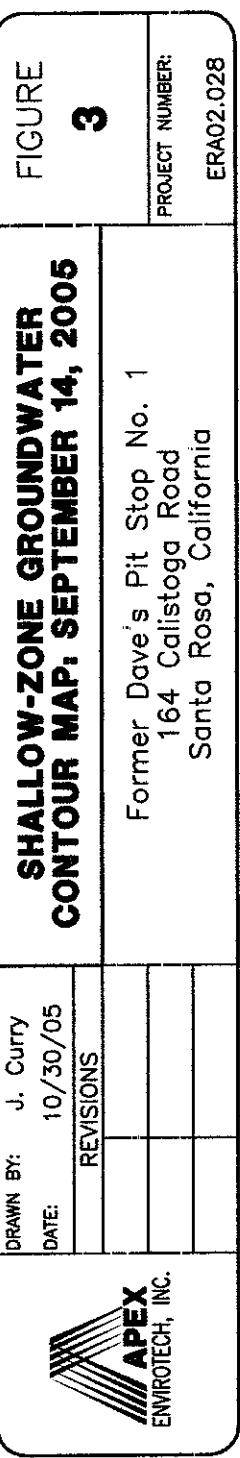
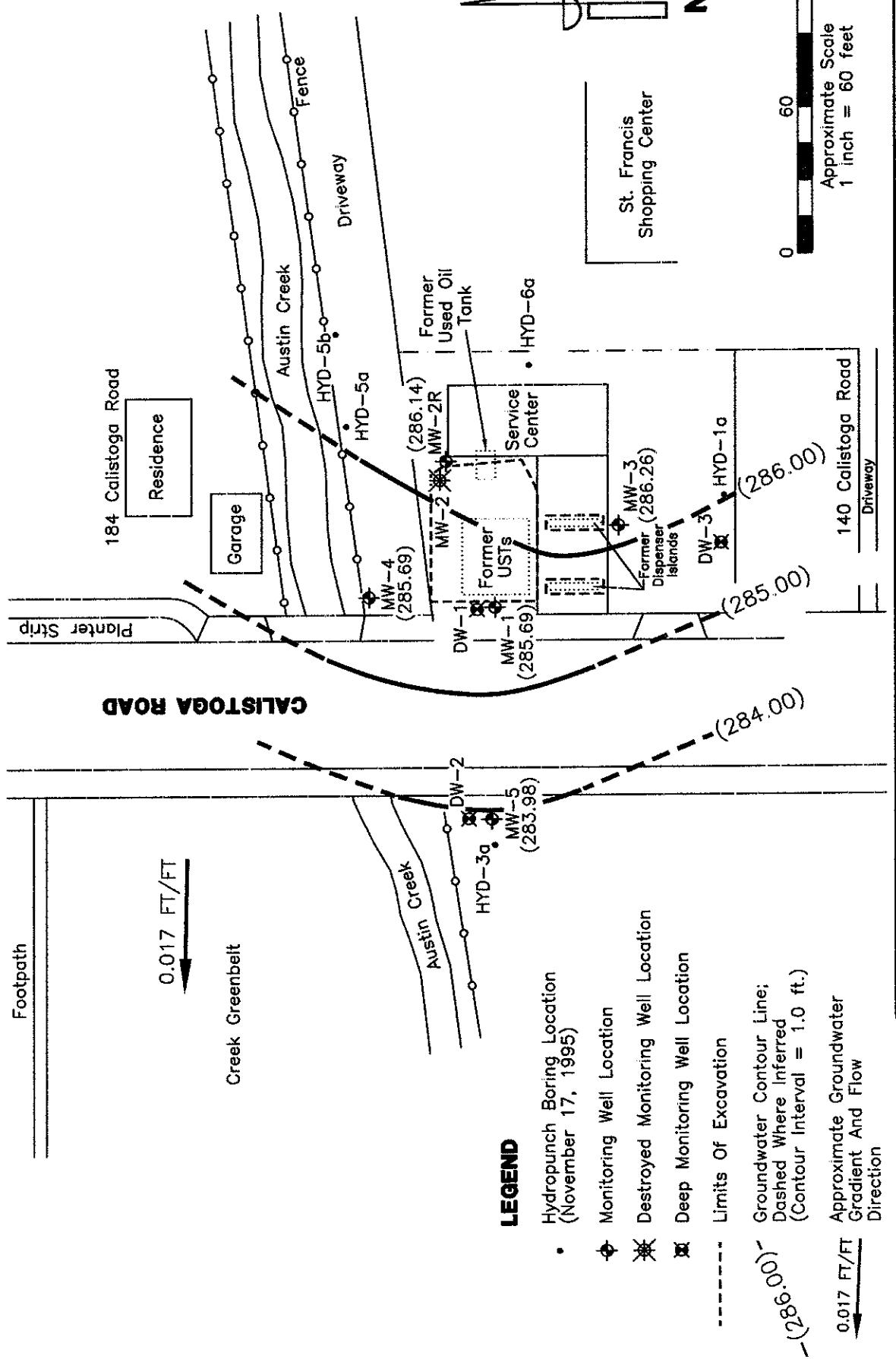
LEGEND

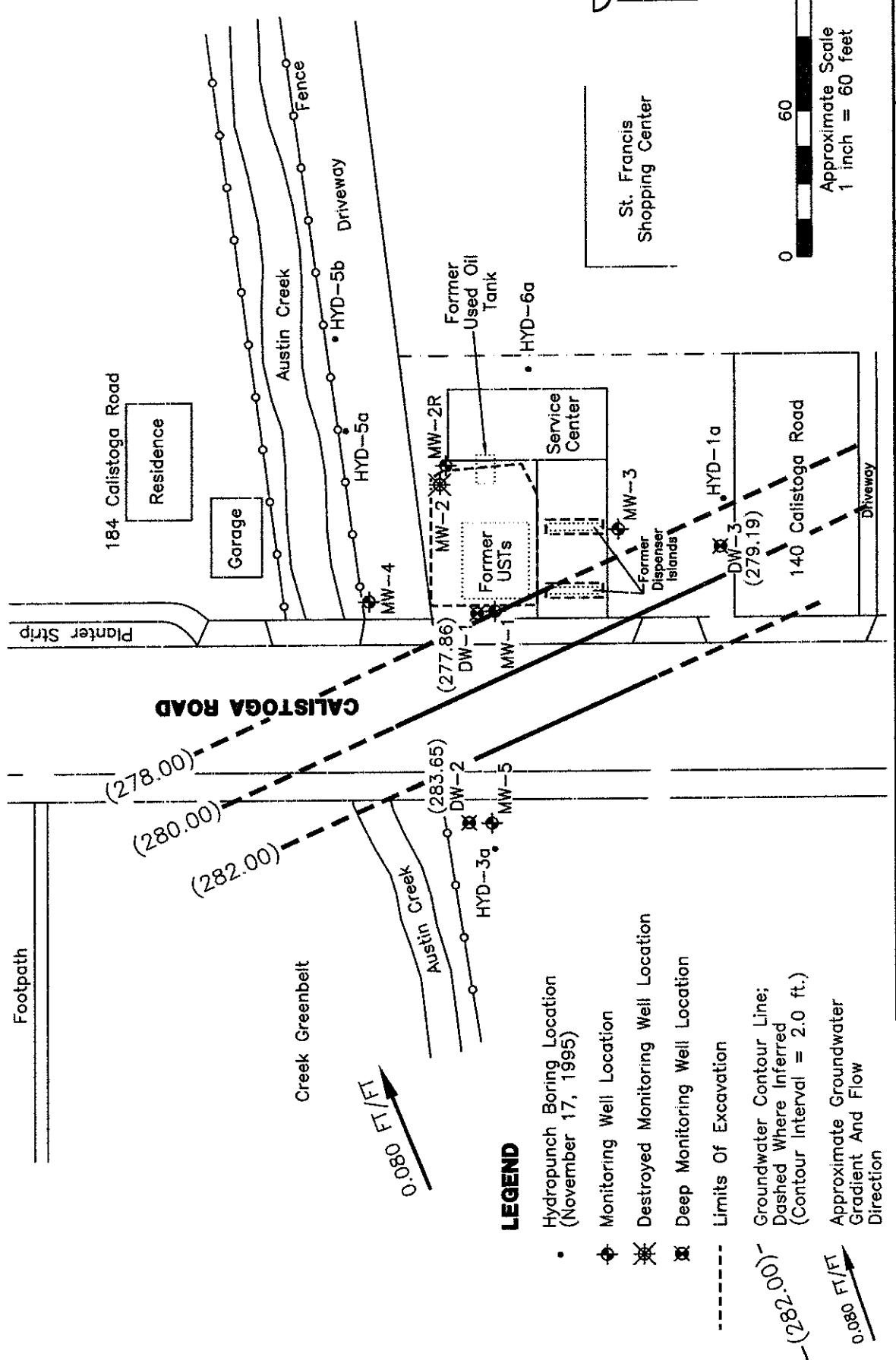
- Hydropunch Boring Location
(November 17, 1995)
- ◆ Monitoring Well Location
- ☒ Destroyed Monitoring Well Location
- ☒ Deep Monitoring Well Location
- - - - - Limits Of Excavation

DRAWN BY:	D. Alston
DATE:	1/27/03
REVISIONS	

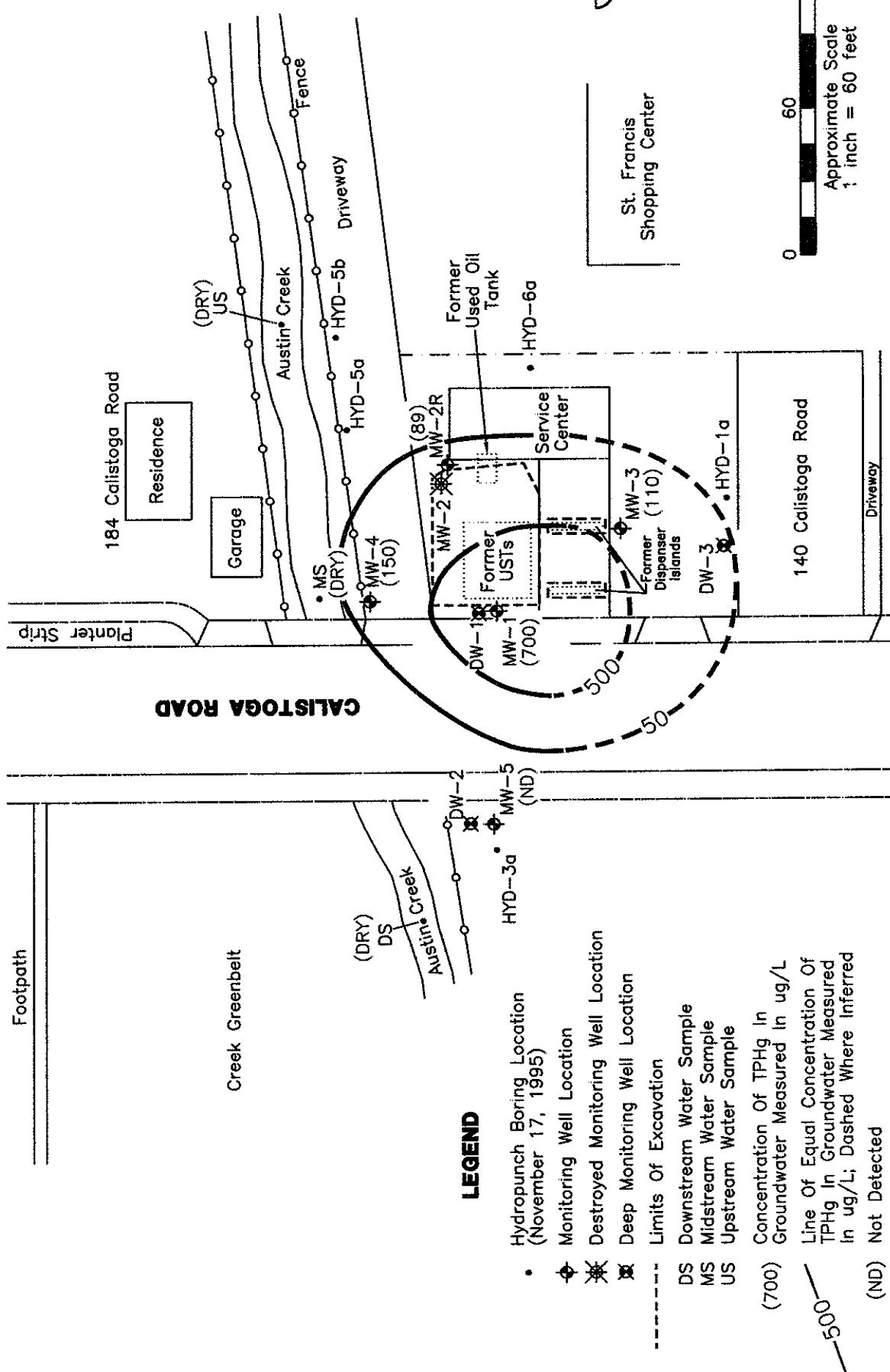


SITE PLAN MAP	FIGURE 2
Former Dave's Pit Stop No. 1 164 Calistoga Road Santa Rosa, California	PROJECT NUMBER: ERA02.028

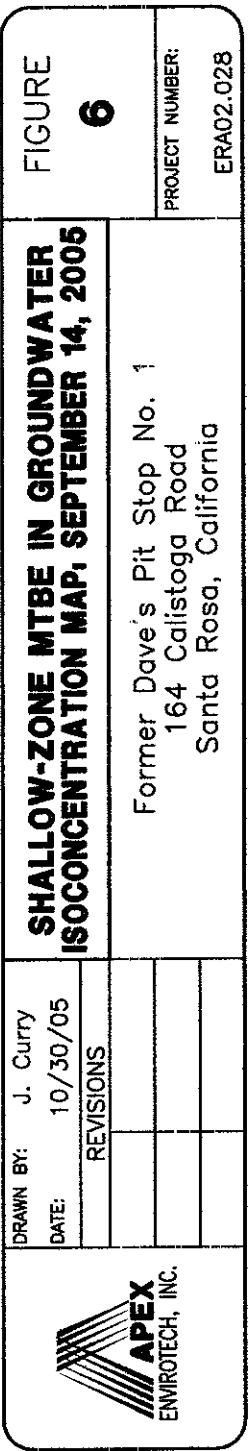
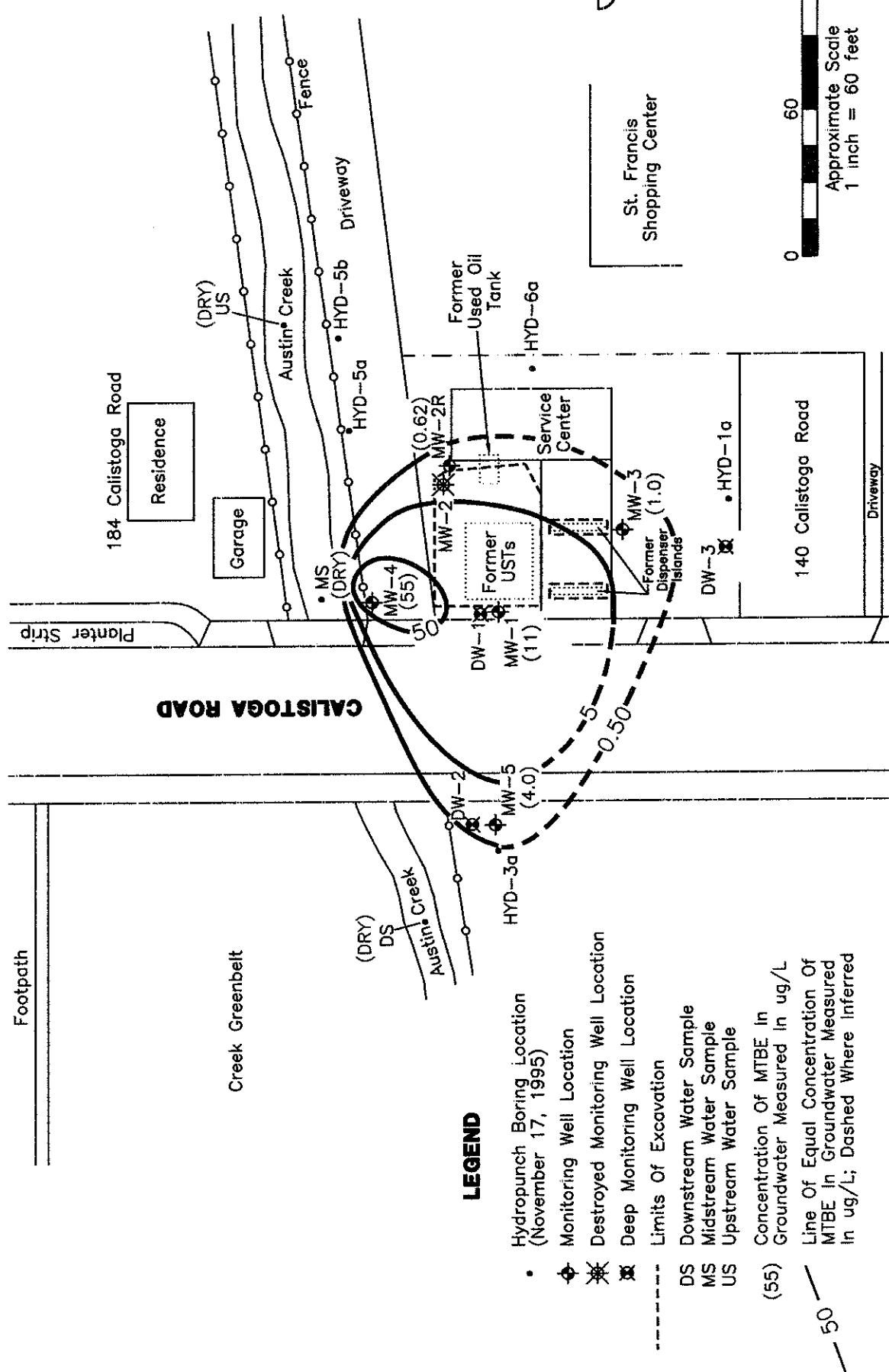


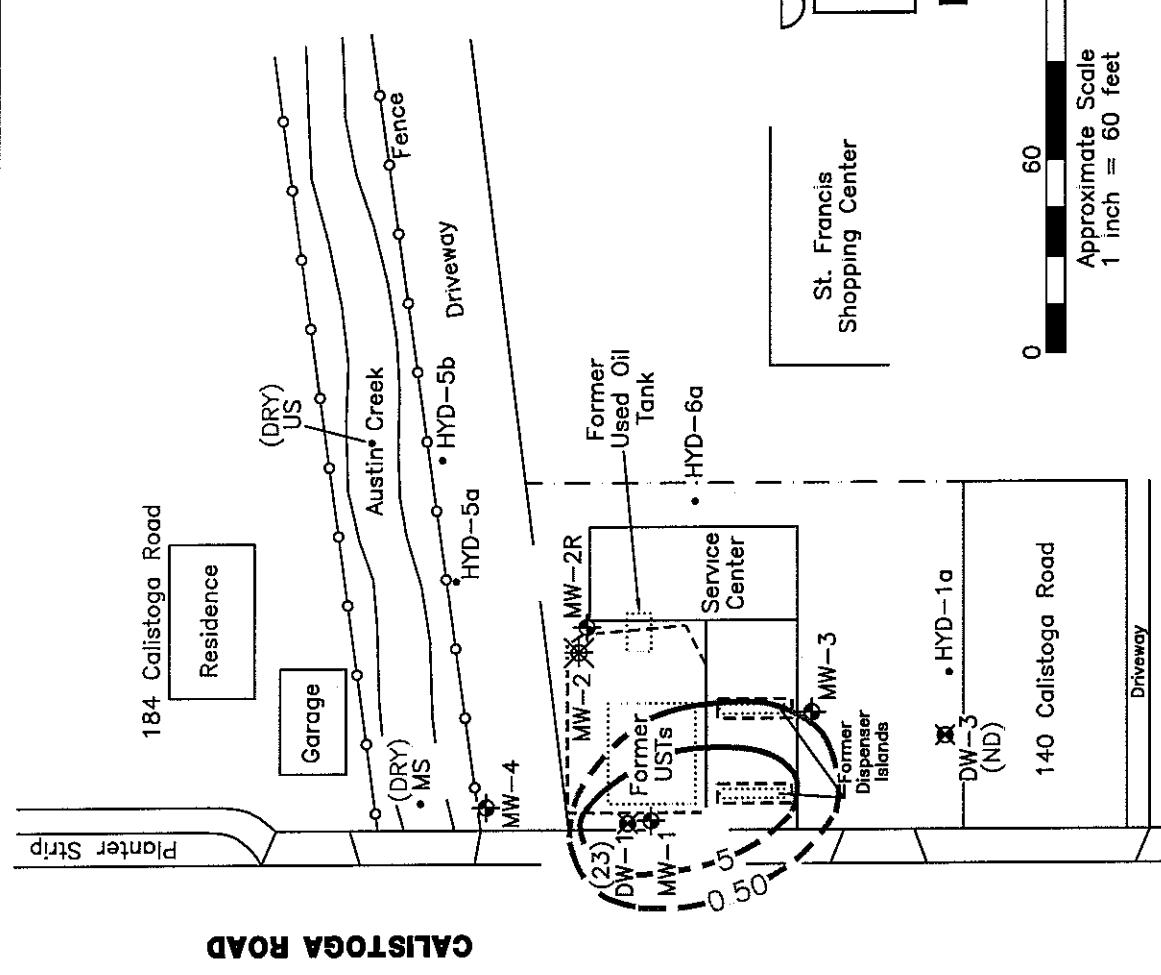


DEEP-ZONE GROUNDWATER CONTOUR MAP, SEPTEMBER 14, 2005		FIGURE 4
Former Dave's Pit Stop No. 1 164 Calistoga Road Santa Rosa, California		PROJECT NUMBER: ERA02.028
DRAWN BY: J. Curry	DATE: 10/30/05	REVISIONS
APEX ENVIROTECH, INC.		



DRAWN BY:	J. Curry	FIGURE 5
DATE:	10/30/05	
REVISIONS		
APEx	ENVIRETECH, INC.	Former Dave's Pit Stop No. 1 164 Calistoga Road Santa Rosa, California
PROJECT NUMBER:		ERA02.028





DRAWN BY: J. Curry DATE: 10/30/05 REVISIONS	FIGURE 7
Former Dave's Pit Stop No. 1 164 Calistoga Road Santa Rosa, California	PROJECT NUMBER: ERA02.028

TABLES

TABLE 1
WELL CONSTRUCTION DETAILS
Former Dave's Pit Stop #1
164 Calistoga Road
Santa Rosa, California

Well Number	Well Installation Date	*Elevation TOC (feet)	Casing Material	Total Depth (feet)	Well Depth (feet)	Casing Diameter (inches)	Screened Interval (feet)	Filter Pack Interval (feet)
MW-1	6/13/1990	292.66	PVC	21	21	4	6 - 21	5 - 21
MW-2	6/13/1990	293.22	PVC	—	—	—	—	—
MW-2R	10/1/1999	293.12	PVC	18.5	18.5	2	4 - 18.5	3 - 18.5
MW-3	6/13/1990	293.59	PVC	21	21	4	6 - 21	5 - 21
MW-4	1/11/1996	292.70	PVC	20	20	2	5 - 20	4 - 20
MW-5	1/3/2002	291.00	PVC	18	18	2	3 - 18	2 - 18
DW-1	1/3/2002	292.82	PVC	40	40	2	35 - 40	34 - 40
DW-2	1/3/2002	291.15	PVC	40	40	2	35 - 40	34 - 40
DW-3	1/3/2002	293.20	PVC	40	40	2	35 - 40	34 - 40

Notes:

* Information reported by Clearwater Group, Inc. entitled *Additional Site Assessment Report*, Jan 29, 2002

MW-2 = Destroyed by overexcavation activities (Feb. 1999). Replaced by MW-2R.

--- = No data found in available reports

TOC = Top of Casing

PVC = Polyvinyl Chloride

DW = Deep Well

TABLE 2
GROUNDWATER ELEVATION DATA
Former Dave's Pit Stop No.1
164 Calistoga Road
Santa Rosa, California
(all measurements are in feet)

Monitoring Well	Date	Reference Elevation (top of Casing)	Depth to Groundwater	Groundwater Elevation
Shallow Zone:				
MW-1	9/14/05	292.66	6.97	285.69
MW-2R	9/14/05	293.12	6.98	286.14
MW-3	9/14/05	293.53	7.27	286.26
MW-4	9/14/05	292.70	7.01	285.69
MW-5	9/14/05	291.00	7.02	283.98
Deep Zone:				
DW-1	9/14/05	292.82	14.96	277.86
DW-2	9/14/05	291.15	7.50	283.65
DW-3	9/14/05	293.20	14.01	279.19

TABLE 3
GROUNDWATER ANALYTICAL DATA
Former Dave's Pit Stop No.1
164 Calistoga Road
Santa Rosa, California

Monitoring Well	Date Collected	TPH as Gasoline (ug/L)	Aromatic Volatile Organics				MTBE (8260) (ug/L)
			Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	
Shallow Zone:							
MW-1	9/14/05	700	<0.50	<0.50	<0.50	<0.50	11
MW-2R	9/14/05	89*	<0.50	<0.50	<0.50	<0.50	0.62
MW-3	9/14/05	110*	<0.50	<0.50	<0.50	<0.50	1.0
MW-4	9/14/05	150*	<0.50	<0.50	<0.50	<0.50	55
MW-5	9/14/05	<50	<0.50	<0.50	<0.50	<0.50	4.0
Deep Zone:							
DW-1	9/14/05	<50	<0.50	<0.50	<0.50	<0.50	23
DW-2	9/14/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
DW-3	9/14/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
Creek:							
DS	9/14/05	Creek Dry					
MS	9/14/05	Creek Dry					
US	9/14/05	Creek Dry					

NOTES:

TPH - Total Petroleum Hydrocarbons

< -below laboratory detection limits

MTBE - Methyl Tertiary Butyl Ether

*TPH as gasoline does not exhibit a typical Gasoline

--- -Not analyzed

chromatographic pattern for sample

ug/L - micrograms per Liter

TABLE 4
HISTORICAL GROUNDWATER ELEVATION DATA
Former Dave's Pit Stop #1
164 Calisotga Road
Santa Rosa, California
(All measurements are in feet)

Monitoring Well	Date	Reference Elevation (top of casing)	Depth to Groundwater	Groundwater Elevation
Shallow Zone:				
MW-1	6/13/90	99 64	7 21	92.43
	11/14/90	---	---	---
	4/2/91	---	---	---
	8/1/91	---	---	---
	1/22/92	292 73	5 20	287 53
	9/14/92		8 17	284 56
	12/16/92		4 77	287 96
	3/9/93		3 94	288 79
	7/14/93		5 83	286 90
	9/23/93		8 34	284 39
	12/15/93		4 56	288 17
	1/11/96		5 05	287 68
	7/12/96		6 62	286 11
	1/7/97		3 55	289 18
	7/28/97		7 73	285 00
	2/9/98		2 30	290 43
	7/30/98		5.81	286 92
	3/16/99		5 38	287 35
	6/15/99	well box damage		
	10/1/99	292 66	7 73	284 93
	11/23/99		5 19	287 47
	2/16/00		2 30	290 36
	5/10/00		4 60	288 06
	7/11/00		6 03	286 63
	10/6/00		7 08	285 58
	3/29/01		4 66	288 00
	10/8/02		7 88	284 78
	1/3/02		2 24	290 42
	5/6/02		5 00	287 66
	12/19/02		---	---
	2/27/03		4 35	288 31
	6/24/03		5 36	287 30
	9/10/03		6 81	285 85
	12/17/03		blocked	
	2/19/04		2 46	290 20
	5/25/04		5 62	287 04
	8/12/04		7 56	285 10
	11/18/04		5 31	287 35
	2/25/05		3 91	288 75
	5/20/05		3 38	289 28
	9/13/05		6 97	285 69
MW-2	6/13/90	100 10	7 65	92.45
	11/14/90	---	---	---
	4/2/91	---	---	---
	8/1/91	---	---	---
	1/22/92	293 20	5 69	287 51
	9/14/92		8 57	284 63
	12/16/92		5 16	288 04
	3/9/93		4 56	288 64
	7/14/93		6 69	286 51
	9/23/93		8 77	284 43
	12/15/93		5 00	288 20
	1/11/96		5 51	287 69
	7/12/96		7 07	286 13
	1/7/97		4 10	289 10
	7/28/97		8 12	285 08
	2/9/98		2 86	290 34
	7/30/98		6 06	287 14
		well destroyed		

TABLE 4
HISTORICAL GROUNDWATER ELEVATION DATA
Former Dave's Pit Stop #1
164 Calisotga Road
Santa Rosa, California
(All measurements are in feet)

Monitoring Well	Date	Reference Elevation (top of casing)	Depth to Groundwater	Groundwater Elevation
MW-2R	10/1/99	293.12	8 02	285 10
	11/23/99		5 41	287 71
	2/16/00		3 07	290.05
	5/10/00		4 93	288.19
	7/11/00		6 15	286.97
	10/6/00		7 20	285.92
	3/29/01		4 97	288.15
	10/8/02		7 99	285.13
	1/3/02		2 78	290.34
	5/6/02		5 24	287.88
	12/19/02		3 66	289.46
	2/27/03		4 73	288.39
	6/24/03		5 53	287.59
	9/10/03		6 92	286.20
	12/17/03		4 56	288.56
	2/19/04		3 03	290.09
	5/25/04		6 72	286.40
	8/12/04		7 71	285.41
	11/18/04		5 43	287.69
	2/25/05		4 29	288.83
	5/20/05		3 88	289.24
	9/13/05		6 98	286.14
MW-3	6/13/90	100 44 293 53	7 85	92 59
	11/14/90		---	---
	4/2/91		---	---
	8/1/91		---	---
	1/22/92		5 80	287.73
	9/14/92		8 74	284.79
	12/16/92		5 12	288.41
	3/9/93		4 38	289.15
	7/14/93		6 79	286.74
	9/23/93		8 92	284.61
	12/15/93		4 95	288.58
	1/11/96		5 67	287.86
	7/12/96		7 08	286.45
	1/7/97		4 02	289.51
	7/28/97		8 20	285.33
	2/9/98		2 79	290.74
	7/30/98		6 21	287.32
	3/16/99		5 78	287.75
	6/15/99		6 05	287.48
	10/1/99		8 18	285.35
	11/23/99		5 87	287.66
	2/16/00		2 89	290.64
	5/10/00		5 11	288.42
	7/11/00		6 43	287.10
	10/6/00		7 20	286.33
	3/29/01		5.15	288.38
	10/8/02		8 26	285.27
	1/3/02		2 82	290.71
	5/6/02		5 57	287.96
	12/19/02		3 51	290.02
	2/27/03		4 78	288.75
	6/24/03		5 84	287.69
	9/10/03		7 19	286.34
	12/17/03		4 73	288.80
	2/19/04		2 88	290.65
	5/25/04		6 02	287.51
	8/12/04		7 94	285.59
	11/18/04		5 98	287.55
	2/25/05		4 16	289.37
	5/20/05		3 81	289.72
	9/13/05		7 27	286.26

TABLE 4
HISTORICAL GROUNDWATER ELEVATION DATA

Former Dave's Pit Stop #1

164 Calisotga Road

Santa Rosa, California

(All measurements are in feet)

Monitoring Well	Date	Reference Elevation (top of casing)	Depth to Groundwater	Groundwater Elevation
MW-4	1/11/96	292.70	5.05	287.65
	7/12/96		6.84	285.86
	1/7/97		3.78	288.92
	7/28/97		7.89	284.81
	2/9/98		0.27	292.43
	7/30/98		4.96	287.74
	3/16/99		4.54	288.16
	6/15/99		5.70	287.00
	10/1/99		7.97	284.73
	11/23/99		5.23	287.47
	2/16/00		2.82	289.88
	5/10/00		4.72	287.98
	7/11/00		6.08	286.62
	10/6/00		7.37	285.33
	3/29/01		4.83	287.87
	10/8/02		8.02	284.68
	1/3/02		3.29	289.41
	5/6/02		5.11	287.59
	12/19/02		2.79	289.91
	2/27/03		4.69	288.01
	6/24/03		5.50	287.20
	9/10/03		6.95	285.75
	12/17/03		4.59	288.11
	2/19/04		3.62	289.08
	5/25/04		5.69	287.01
	8/12/04		7.69	285.01
	11/18/04		5.26	287.44
	2/25/05		4.44	288.26
	5/20/05		4.12	288.58
	9/13/05		7.01	285.69
MW-5	1/3/02	291.00	1.92	289.08
	5/6/02		4.60	286.40
	12/19/02		2.50	288.50
	2/27/03		3.69	287.31
	6/24/03		4.84	286.16
	9/10/03		6.53	284.47
	12/17/03		blocked	
	2/19/04		2.03	288.97
	5/25/04		5.09	285.91
	8/12/04		7.90	283.10
	11/18/04		5.72	285.28
	2/25/05		3.63	287.37
	5/20/05		3.42	287.58
	9/13/05		7.02	283.98
Deep Zone: DW-1	1/3/02	292.82	0.30	292.52
	5/6/02		6.11	286.71
	12/19/02		3.88	288.94
	2/27/03		6.27	286.55
	6/24/03		20.52	272.30
	9/10/03		7.80	285.02
	12/17/03		4.97	287.85
	2/19/04		4.04	288.78
	5/25/04		6.43	286.39
	8/12/04		7.91	284.91
	11/18/04		14.35	278.47
	2/25/05		14.62	278.20
	5/20/05		13.60	279.22
	9/13/05		14.96	277.86

TABLE 4
HISTORICAL GROUNDWATER ELEVATION DATA
Former Dave's Pit Stop #1
164 Calisotga Road
Santa Rosa, California
(All measurements are in feet)

Monitoring Well	Date	Reference Elevation (top of casing)	Depth to Groundwater	Groundwater Elevation
DW-2	1/3/02	291.15	3.76	287.39
	5/6/02		4.51	286.64
	12/19/02		2.53	288.62
	2/27/03		3.11	288.04
	6/24/03		4.97	286.18
	9/10/03		6.58	284.57
	12/17/03		blocked	
	2/19/04		2.30	288.85
	5/25/04		5.04	286.11
	8/12/04		7.09	284.06
	11/18/04		5.48	285.67
	2/25/05		3.00	288.15
	5/20/05		2.92	288.23
	9/13/05		7.50	283.65
DW-3	1/3/02	293.20	15.69	277.51
	5/6/02		16.32	276.88
	12/19/02		11.98	281.22
	2/27/03		18.45	274.75
	6/24/03		21.54	271.66
	9/10/03		21.81	271.39
	12/17/03		16.12	277.08
	2/19/04		3.97	289.23
	5/25/04		13.31	279.89
	8/12/04		15.18	278.02
	11/18/04		10.12	283.08
	2/25/05		11.48	281.72
	5/20/05		13.43	279.77
	9/13/05		14.01	279.19

TABLE 5
HISTORICAL GROUNDWATER ANALYTICAL DATA

Former Dave's Pit Stop #1

164 Calistoga Road

Santa Rosa, California

Monitoring Well	Date Collected	TPH as Gasoline (ug/L)	Aromatic Volatile Organics				MTBE (8260) (ug/L)
			Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	
Shallow Zone:							
MW-1	6/13/90	21 000	13,000	3 100	280	4,900	---
	11/14/90	26 000	2,400	1,700	1,100	2,800	---
	4/2/91	14,000	5 000	230	1,400	190	---
	8/1/91	18,000	6,300	<0.5	1,700	3,900	---
	1/22/92	10,000	2 500	150	650	1,900	---
	9/14/92	13,000	1,500	20	1,000	60	---
	12/16/92	15,000	2,200	190	800	1,400	---
	3/9/93	21,000	1,100	80	540	930	---
	7/14/93	18 000	420	60	500	2,000	---
	9/23/93	11,000	250	30	330	700	---
	12/15/93	2,200	71	4.9	57	100	---
	1/11/96	6 200	410	29	460	220	---
	7/12/96	---	---	---	---	---	---
	1/7/97	---	---	---	---	---	---
	7/28/97	13,000	700	<50	320	<200	67,000
	2/9/98	21,000	490	390	400	300	35,000
	7/30/98	24,000	640	160	150	40	37,000
	3/16/99	3,200	55	4	50	13	5,600
	6/15/99	---	---	---	---	---	---
	10/1/99	3,600	<25	<25	34	<25	1,100
	11/23/99	4 100	49	<5	42	<5	2,100
	2/16/00	5,900	50	<25	63	<25	4,000
	5/10/00	2 700	17	<5	<5	<5	2,000
	7/11/00	1,900	11	6.3	14	<5	970
	10/6/00	1,900	7	<2.5	7	<2.5	850
	3/29/01	2,200	20	<5.0	18	<5.0	1,800
	10/8/02	480	<2.0	<2.0	<2.0	<2.0	650
	1/3/02	2,600	5	<2.0	24	<2.0	890
	5/6/02	2,300	<5	<5	8.6	<10	630
	12/19/02	---	---	---	---	---	---
	2/27/03	2,900	1.2	0.84	13	0.72	160
	6/24/03	1,700	<0.50	<0.50	3.8	<0.50	29
	9/10/03	950	<0.50	<0.50	1.4	<0.50	18
	12/17/03	---	---	---	---	---	---
	2/19/04	3,500	1.2	0.74	11	0.69	110
	5/25/04	1,200	<0.50	<0.50	2.4	<0.50	21
	8/12/04	670	<0.50	<0.50	<0.50	<0.50	32
	11/18/04	870	<0.50	<0.50	1.3	<0.50	17
	2/25/05	2,200	0.54	<0.50	7.0	0.56	26
	5/20/05	2,400	<0.50	0.72	9.8	0.56	11
	9/14/05	700	<0.50	<0.50	<0.50	<0.50	11
MW-2	6/13/90	7,700	3,900	520	270	910	---
	11/14/90	3,600	1,200	65	160	310	---
	4/2/91	30 000	4,600	3,900	1,100	5,600	---
	8/1/91	11,000	170	90	450	1,400	---
	1/22/92	FLH	FLH	FLH	FLH	FLH	FLH
	9/14/92	4,800	440	10	460	10.0	---
	12/16/92	4,900	430	64	130	530	---
	3/9/93	7,300	160	81	330	870	---
	7/14/93	770	75	1.2	36	16	---
	9/23/93	1,400	32	20	90	6	---
	12/15/93	9,200	100	14	110	140	---
	1/11/96	900	370	100	18	30	---
	7/12/96	---	---	---	---	---	---
	1/7/97	---	---	---	---	---	---
	7/28/97	3,800	130	70	110	330	30,000
	2/9/98	80,000	700	200	600	1,400	220,000
	7/30/98	18 000	200	460	56	120	19,000
	well destroyed						

TABLE 5
HISTORICAL GROUNDWATER ANALYTICAL DATA

Former Dave's Pit Stop #1
164 Calistoga Road
Santa Rosa, California

Monitoring Well	Date Collected	TPH as Gasoline (ug/L)	Aromatic Volatile Organics				MTBE (8260) (ug/L)
			Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	
MW-2R	10/1/99	70	<0.5	<0.5	<0.5	<0.5	28
	11/23/99	110	<0.5	<0.5	<0.5	<0.5	130
	2/16/00	1,100	10	<5	<5	<5	2,500
	5/10/00	88	<0.5	<0.5	<0.5	<0.5	37
	7/11/00	170	0.5	<0.5	<0.5	<0.5	35
	10/6/00	130	<0.5	<0.5	<0.5	<0.5	48
	3/29/01	52	<0.5	<0.5	<0.5	<0.5	20
	10/8/02	160	<0.5	<0.5	<0.5	<0.5	10
	1/3/02	120	7.5	<0.5	<0.5	<0.5	140
	5/6/02	91	<0.5	<0.5	<0.5	<1	<5
	12/19/02	<50	<0.50	<0.50	<0.50	<1.0	11
	2/27/03	71	<0.50	<0.50	<0.50	<0.50	3.6
	6/24/03	87	<0.50	<0.50	<0.50	<0.50	1.1
	9/10/03	69	<0.50	<0.50	<0.50	<0.50	1.9
	12/17/03	<50	<0.50	<0.50	<0.50	<0.50	2.2
	2/19/04	53	0.77	<0.50	<0.50	<0.50	6.4
	5/25/04	81	<0.50	<0.50	<0.50	<0.50	<0.50
	8/12/04	<50	<0.50	<0.50	<0.50	<0.50	1.9
	11/18/04	83*	<0.50	<0.50	<0.50	<0.50	0.68
	2/25/05	88*	<0.50	<0.50	<0.50	<0.50	1.4
	5/20/05	52*	<0.50	<0.50	<0.50	<0.50	0.64
	9/13/05	89*	<0.50	<0.50	<0.50	<0.50	0.62
MW-3	6/13/90	310	19	ND	0.5	1.4	---
	11/14/90	450	11	39	18	37	---
	4/2/91	710	18	<0.5	12	19	---
	8/1/91	470	10	<0.5	3	4.4	---
	1/22/92	690	9.6	<0.5	14	31	---
	9/14/92	530	2.9	<10	1.1	0.9	---
	12/16/92	850	6.1	2.8	6.0	8.1	---
	3/9/93	780	<0.5	<0.5	8.7	9.6	---
	7/14/93	290	11	1.4	2.4	1.6	---
	9/23/93	320	3.40	ND	ND	ND	---
	12/15/93	540	4.80	11	2.3	3.0	---
	1/11/96	1,000	7.00	2.0	18	29	---
	7/12/96	---	---	---	---	---	---
	1/7/97	---	---	---	---	---	---
	7/28/97	370	0.70	0.8	<0.5	<2	42
	2/9/98	1,800	30	67	22	50	2,100
	7/30/98	470	0.95	1.0	<0.5	1.6	110
	3/16/99	890	6.9	1.1	0.74	2.1	270
	6/15/99	350	0.62	<0.5	<0.5	<0.5	72
	10/1/99	220	1.2	0.5	<0.5	<0.5	46
	11/23/99	480	4.9	<2.5	<2.5	<2.5	340
	2/16/00	320	2.7	1.0	0.69	2.4	200
	5/10/00	280	1.1	<0.5	<0.5	<0.5	62
	7/11/00	200	1.1	<0.5	<0.5	<0.5	31
	10/6/00	290	1.4	<0.5	<0.5	<0.5	18
	3/29/01	230	2.0	0.6	<0.5	<0.5	76
	10/8/02	140	<0.5	<0.5	<0.5	<0.5	8
	1/3/02	99	<0.5	<0.5	<0.5	<0.5	150
	5/6/02	260	<0.5	<0.5	<0.5	<1	18
	12/19/02	<50	<0.50	<0.50	<0.50	<1.0	360
	2/27/03	130	<0.50	<0.50	<0.50	<0.50	67
	6/24/03	96	<0.50	<0.50	<0.50	<0.50	16
	9/10/03	120	<0.50	<0.50	<0.50	<0.50	3.9
	12/17/03	87	<0.50	<0.50	<0.50	<0.50	23
	2/19/04	89	<0.50	<0.50	<0.50	<0.50	8.7
	5/25/04	100	<0.50	<0.50	<0.50	<0.50	3.7
	8/12/04	77	<0.50	<0.50	<0.50	<0.50	2.5
	11/18/04	120	<0.50	<0.50	<0.50	<0.50	4.2
	2/25/05	69	<0.50	<0.50	<0.50	<0.50	4.3
	5/20/05	140*	<0.50	<0.50	<0.50	<0.50	2.7
	9/13/05	110*	<0.50	<0.50	<0.50	<0.50	1.0

TABLE 5
HISTORICAL GROUNDWATER ANALYTICAL DATA
Former Dave's Pit Stop #1
164 Calistoga Road
Santa Rosa, California

Monitoring Well	Date Collected	TPH as Gasoline (ug/L)	Aromatic Volatile Organics				MTBE (8260) (ug/L)
			Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	
MW-4	1/11/96	<50	10	0.8	<0.5	<2	---
	7/12/96	80	0.6	<0.5	<0.5	<2	1,800
	1/7/97	300	3.0	5.0	<3	<10	1,600
	7/28/97	<300	<3	<3	<3	<10	760
	2/9/98	1,200	10	8.0	9.0	20	2,800
	7/30/98	1,500	<0.5	<0.5	<0.5	0.54	1,200
	3/16/99	130	<0.5	1.0	<0.5	0.64	980
	6/15/99	<500	<5.0	<5.0	<5.0	<5.0	700
	10/1/99	400	<2.5	<2.5	<2.5	<2.5	520
	11/23/99	310	<2.5	<2.5	<2.5	<2.5	520
	2/16/00	580	<5.0	<5.0	<5.0	<5.0	440
	5/10/00	680	<0.5	<0.5	<0.5	<0.5	850
	7/11/00	430	<2.5	3.1	<2.5	<2.5	610
	10/6/00	360	<1.0	<1.0	<1.0	<1.0	53
	3/29/01	340	<0.5	<0.5	<0.5	<0.5	420
	10/8/02	140	<0.5	<0.5	<0.5	<0.5	610
	1/3/02	320	<0.5	<0.5	<0.5	<0.5	240
	5/6/02	620	<0.5	<0.5	<0.5	<0.5	620
	12/19/02	<50	<0.50	<0.50	<0.50	<1.0	7.4
	2/27/03	300	<0.50	<0.50	<0.50	<0.50	250
	6/24/03	380	<0.50	<0.50	<0.50	<0.50	250
	9/10/03	220	<0.50	<0.50	<0.50	<0.50	150
	12/17/03	130	<0.50	<0.50	<0.50	<0.50	73
	2/19/04	280	<0.50	<0.50	<0.50	<0.50	170
	5/25/04	210	<0.50	<0.50	<0.50	<0.50	150
	8/12/04	130	<0.50	<0.50	<0.50	<0.50	100
	11/18/04	<50	<0.50	<0.50	<0.50	<0.50	15
MW-5	2/25/05	240*	<0.50	<0.50	<0.50	<0.50	85
	5/20/05	250*	<0.50	<0.50	<0.50	<0.50	99
	9/13/05	150*	<0.50	<0.50	<0.50	<0.50	55
	1/3/02	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	5/6/02	<50	<0.5	<0.5	<0.5	<1	<5
	12/19/02	<50	<0.50	<0.50	<0.50	<1.0	<5.0
	2/27/03	<50	<0.50	<0.50	<0.50	<0.50	5.1
	6/24/03	84	<0.50	<0.50	<0.50	<0.50	4.9
	9/10/03	<50	<0.50	<0.50	<0.50	<0.50	6.1
	12/17/03	---	---	---	---	---	---
	2/19/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/25/04	52	<0.50	<0.50	<0.50	<0.50	3.5
	8/12/04	<50	<0.50	<0.50	<0.50	<0.50	3.8
	11/18/04	64	<0.50	2.2	<0.50	<0.50	7.0
Deep Zone: DW-1	2/25/05	<50	<0.50	1.1	<0.50	<0.50	0.82
	5/20/05	<50	<0.50	3.2	<0.50	<0.50	2.1
	9/13/05	<50	<0.50	<0.50	<0.50	<0.50	4.0

TABLE 5
HISTORICAL GROUNDWATER ANALYTICAL DATA

Former Dave's Pit Stop #1

164 Calistoga Road

Santa Rosa, California

Monitoring Well	Date Collected	TPH as Gasoline (ug/L)	Aromatic Volatile Organics				MTBE (8260) (ug/L)
			Benzene (ug/L)	Toluene (ug/L)	Ethy-benzene (ug/L)	Total Xylenes (ug/L)	
DW-2	1/3/02	<50	<0.5	<0.5	<0.5	<0.5	0.68
	5/6/02	<50	<0.5	<0.5	<0.5	<1	<5
	12/19/02	---	---	---	---	---	---
	2/27/03	<50	<0.50	<0.50	<0.50	<0.50	1.4
	6/24/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/10/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/17/03	---	---	---	---	---	---
	2/19/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/25/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	8/12/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/18/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	2/25/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/20/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/13/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
DW-3	1/3/02	<50	<0.5	<0.5	<0.5	<0.5	0.76
	5/6/02	<50	<0.5	<0.5	<0.5	<1	<5
	12/19/02	<50	<0.50	<0.50	<0.50	<1.0	<5.0
	2/27/03	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	6/24/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/10/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/17/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	2/19/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/25/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	8/12/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/18/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	2/25/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/20/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/13/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
Creek DS	6/24/03	<50	<0.50	<0.50	<0.50	<0.50	1.9
	9/10/03	Creek dry		<0.50	<0.50	<0.50	
	12/17/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	2/19/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/25/04	<50	<0.50	<0.50	<0.50	<0.50	1.3
	11/18/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	2/25/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/20/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/13/05	Creek dry		<0.50	<0.50	<0.50	
Creek MS	6/24/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/10/03	Creek dry		<0.50	<0.50	<0.50	
	12/17/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	2/19/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/25/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/18/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	2/25/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/20/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/13/05	Creek dry		<0.50	<0.50	<0.50	
US	6/24/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/10/03	Creek dry		<0.50	<0.50	<0.50	
	12/17/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	2/19/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/25/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/18/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	2/25/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/20/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/13/05	Creek dry		<0.50	<0.50	<0.50	
Domestic Well	6/24/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/10/03	Creek dry		<0.50	<0.50	<0.50	
	12/17/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	2/19/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/25/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/18/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	2/25/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/20/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/13/05	Creek dry		<0.50	<0.50	<0.50	

NOTES:

TPH - Total Petroleum Hydrocarbons

< -below laboratory detection limits

MTBE - Methyl Tertiary Butyl Ether

TPH as gasoline does not exhibit a typical Gasoline chromatographic pattern for sample

--- -Not analyzed

ug/L - micrograms per Liter

APPENDIX A

APEX STANDARD OPERATING PROCEDURES

APEX ENVIROTECH, INC.
STANDARD OPERATING PROCEDURES
Quarterly Monitoring Reports

SOP – 4
SAMPLE IDENTIFICATION AND CHAIN-OF-CUSTODY PROCEDURES

Sample identification and chain-of-custody procedures ensure sample integrity as well as document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis is labeled to identify the job number, date, time of sample collection, a sample number unique to the sample, any in-field measurements made, other pertinent field observations also recorded on the field excavation or boring logs.

Chain-of-custody forms are used to record possession of the sample from time of collection to arrival at the laboratory. During shipment, the person with custody of the samples will relinquish them to the next person by signing the chain-of-custody form(s) and noting the date and time. The sample control officer at the laboratory will verify sample integrity, correct preservation, confirm collection in the proper container(s), and ensure adequate volume for analysis.

If these conditions are met, the samples will be assigned unique laboratory log numbers for identification throughout analysis and reporting. The log numbers will be recorded on the chain-of-custody forms and in the legally-required log book maintained in the laboratory. The sample description, date received, client's name, and any other relevant information will also be recorded.

SOP – 5
LABORATORY ANALYTICAL QUALITY ASSURANCE AND CONTROL

In addition to routine instrument calibration, replicates, spikes, blanks, spiked blanks, and certified reference materials are routinely analyzed at method-specific frequencies to monitor precision and bias. Additional components of the laboratory Quality Assurance/Quality Control program include:

- 1 Participation in state and federal laboratory accreditation/certification programs;
- 2 Participation in both U.S. EPA Performance Evaluation studies (WS and WP studies) and inter-laboratory performance evaluation programs;
- 3 Standard operating procedures describing routine and periodic instrument maintenance;
- 4 "out-of-Control"/Corrective Action documentation procedures; and,
- 5 Multi-level review of raw data and client reports.

SOP – 7
GROUNDWATER PURGING AND SAMPLING

Prior to water sampling, each well is purged by evacuating a minimum of three wetted well-casing volumes of groundwater. When required, purging will continue until either the discharge water temperature, conductivity, or pH stabilize. A maximum of ten wetted-casing volumes of groundwater have been recovered or the well is bailed dry.

When practical, the groundwater sample should be collected when the water level in the well recovers to at least 80 percent of its static level.

The sampling equipment consists of either a "Teflon" bailer, PVC bailer, or stainless steel bladder pump with a "Teflon" bladder. If the sampling system is dedicated to the well, then the bailer is usually "Teflon," but the bladder pump is PVC with a polypropylene bladder. In general and depending on the intended laboratory analysis, 40-milliliter glass, volatile organic analysis (VOA) vials, with "Teflon" septa, are used as sample containers.

SOP – 12
MEASURING LIQUID LEVELS USING WATER LEVEL METER OR INTERFACE PROBE

Field equipment used for liquid-level gauging typically includes the measuring instrument (water-level meter or interface probe and product bailer(s)). The field kit also includes cleaning supplies (buckets, solution, spray bottles, and deionized water) to be used in cleaning the equipment between wells.

Prior to measurements, the instrument tip is lowered into the well until it touches bottom. Using the previously established top-of-casing or top-of-box (i.e., wellhead vault) point, the probe cord (or halyard) is marked and a measuring tape (graduated in hundredths of a foot) is used to determine the distance between the probe end and the marking on the cord. This measurement is then recorded on the liquid-level data sheet as the "Measured Total Depth" of the well.

When necessary in using the interface probe to measure liquid levels, the probe is first electrically grounded to either the metal stove pipe or another metal object nearby. When no ground is available, reproducible measurements can be obtained by clipping the ground lead to the handle of the interface probe case.

The probe tip is then lowered into the well and submerged in the groundwater. An oscillating (beeping) tone indicates the probe is in water. The probe is slowly raised until either the oscillating tone ceases or becomes a steady tone. In either case, this is the depth-to-water (DTW) indication of the DTW measurement is made accordingly. The steady tone indicates floating liquid hydrocarbons (FLH). In this case, the depth-to-product (DTP) indication and the DTP measurement is made accordingly.

The process of lowering and raising the probe must be repeated several times to ensure accurate measurements. The DTW and DTP measurements are recorded on the liquid-level data sheet. When FLH are indicated by the probe's response, a product bailer is lowered partially through the FLH water interface to confirm the FLH thickness, particularly in cases where the FLH layer is quite thin. This measurement is recorded on the data sheet as "FLH thickness."

In order to avoid cross-contamination of wells during the liquid-level measurement process, wells are measured in the order of "clean" to "dirty" (where such information is available). In addition, all measurement equipment is cleaned with solution and thoroughly rinsed with deionized water before use, between measurements in respective wells, and at the completion of the day's use.

APPENDIX B

FIELD DATA SHEETS



Groundwater Level Data Sheet

Project ERA 02.028
Location Santa Rosa, CA
Date 9/14/05
Recorded By RcM

Well Volume Calculation:
 $(2' \times 0.16) (4'' \times 0.65)$



Monitoring Data

APEX
ENVIROTECH, INC.

Project: Former Dave's Pit Stop #1
 Project Number: ERA02.028
 Date: 9/14/05
 Recorded By: RCM

WELL	TIME	TEMP (deg F)	pH	COND. (μ S/cm)	DISSOLVED OXYGEN	TOTAL VOLUME REMOVED	COMMENTS/OBSERVATIONS
DW-2	1047	16.4	7.1	519		5.25	
	1057	16.7	7.1	441		10.50	
	1107	16.7	7.1	222		15.75	samp btl @ 1500
MN-5	1117	18.7	6.4	651		1.25	
	1120	19.1	6.4	318		2.50	
	1123	19.2	6.4	680		3.75	samp btl @ 1510
DW-3	1145	18.0	6.8	306		4.50	
	1149	18.3	6.9	266		8.75	Well dry & S-Spal purged
	1206	18.0	7.0	562		4	13 S-Spal
DW-1	1211	18.3	7.3	626		8.25	Well dry @ 5.25 gal purged
						12.50	Samp btl @ 1535



Monitoring Data

Project:

Project Number: ERA02.028

Date: 9/4/05

Recorded By: RCM

WELL	TIME	TEMP (deg C)	pH	COND. (µS/cm)	DISSOLVED OXYGEN	TOTAL VOLUME REMOVED	COMMENTS/OBSERVATIONS
MW-2R	1221	19.6	6.5	410		2	slight odor & shear
	1225	19.9	6.4	545		4	1 flange rusted out = No threads
V	1229	19.8	6.5	542		6	Samp lab @ 1545 1.5 gpm
MW-3	1332	22.0	6.2	531		8	
	1338	21.4	6.2	588		16	1 flange rusted out 1 flange broken
V	1343	20.8	6.2	558		24	Samp lab @ 1555
MW-4	1357	20.5	6.4	479		2	
	1402	20.4	6.4	385		4	1 flange rusted out
V	1406	19.9	6.5	483		6.25	
MW-1	1417	21.8	6.5	348		8	
	1423	22.5	6.5	755			1.5 gpm odor
V	1428	22.8	6.6	775		16	1 flange rusted out
						24	Samp lab @ 1615

TEMPH.XLS

4/1/97

APPENDIX C

LABORATORY ANALYTICAL REPORT AND

CHAIN-OF-CUSTODY FORM



Report Number : 46037

Date : 9/26/2005

Rebekah Westrup
Apex Envirotech Inc.
11244 Pyrites Way
Gold River, CA 95670-4481

Subject : 8 Water Samples
Project Name : Former Dave's Pit Stop #1
Project Number : ERA02 028-QM

Dear Ms. Westrup,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 46037

Date : 9/26/2005

Subject : 8 Water Samples
Project Name : Former Dave's Pit Stop #1
Project Number : ERA02.028-QM

Case Narrative

Hydrocarbons reported as TPH as Gasoline do not exhibit a typical Gasoline chromatographic pattern for samples MW-2R, MW-3 and MW-4

Approved By:

A handwritten signature in black ink that reads "Joe Kiff". The signature is written over a horizontal line.

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800



Report Number : 46037

Date : 9/26/2005

Project Name : Former Dave's Pit Stop #1

Project Number : ERA02.028-QM

Sample : MW-1

Matrix : Water

Lab Number : 46037-01

Sample Date : 9/14/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Methyl-t-butyl ether (MTBE)	11	0.50	ug/L	EPA 8260B	9/21/2005
TPH as Gasoline	700	50	ug/L	EPA 8260B	9/21/2005
Toluene - d8 (Surr)	94.0		% Recovery	EPA 8260B	9/21/2005
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	9/21/2005

Sample : MW-2R

Matrix : Water

Lab Number : 46037-02

Sample Date : 9/14/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Methyl-t-butyl ether (MTBE)	0.62	0.50	ug/L	EPA 8260B	9/21/2005
TPH as Gasoline	89	50	ug/L	EPA 8260B	9/21/2005
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	9/21/2005
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	9/21/2005

Approved By:

Joel Kiff



Report Number : 46037

Date : 9/26/2005

Project Name : Former Dave's Pit Stop #1

Project Number : ERA02.028-QM

Sample : MW-3

Matrix : Water

Lab Number : 46037-03

Sample Date : 9/14/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Methyl-t-butyl ether (MTBE)	1.0	0.50	ug/L	EPA 8260B	9/21/2005
TPH as Gasoline	110	50	ug/L	EPA 8260B	9/21/2005
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	9/21/2005
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	9/21/2005

Sample : MW-4

Matrix : Water

Lab Number : 46037-04

Sample Date : 9/14/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Methyl-t-butyl ether (MTBE)	55	0.50	ug/L	EPA 8260B	9/22/2005
TPH as Gasoline	150	50	ug/L	EPA 8260B	9/22/2005
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	9/22/2005
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	9/22/2005

Approved By:

Joel Kiff



Report Number : 46037

Date : 9/26/2005

Project Name : Former Dave's Pit Stop #1

Project Number : ERA02.028-QM

Sample : MW-5

Matrix : Water

Lab Number : 46037-05

Sample Date : 9/14/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Methyl-t-butyl ether (MTBE)	4.0	0.50	ug/L	EPA 8260B	9/21/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/21/2005
Toluene - d8 (Surr)	97.4		% Recovery	EPA 8260B	9/21/2005
4-Bromofluorobenzene (Surr)	113		% Recovery	EPA 8260B	9/21/2005

Sample : DW-1

Matrix : Water

Lab Number : 46037-06

Sample Date : 9/14/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Methyl-t-butyl ether (MTBE)	23	0.50	ug/L	EPA 8260B	9/21/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/21/2005
Toluene - d8 (Surr)	91.5		% Recovery	EPA 8260B	9/21/2005
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	9/21/2005

Approved By:

Joel Kiff



Report Number : 46037

Date : 9/26/2005

Project Name : Former Dave's Pit Stop #1

Project Number : ERA02.028-QM

Sample : DW-2

Matrix : Water

Lab Number : 46037-07

Sample Date : 9/14/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/21/2005
Toluene - d8 (Surr)	90.3		% Recovery	EPA 8260B	9/21/2005
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	9/21/2005

Sample : DW-3

Matrix : Water

Lab Number : 46037-08

Sample Date : 9/14/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/21/2005
Toluene - d8 (Surr)	90.1		% Recovery	EPA 8260B	9/21/2005
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	9/21/2005

Approved By: 
Joel Kiff

QC Report : Method Blank Data
 Project Name : Former Dave's Pit Stop #1
 Project Number : ERA02.028-QM

Report Number : 46037
 Date : 9/26/2005

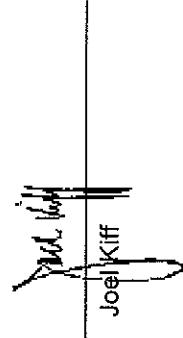
Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/21/2005
Toluene - d8 (Sur)	99.9	%		EPA 8260B	9/21/2005
4-Bromofluorobenzene (Sur)	102	%		EPA 8260B	9/21/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/21/2005
Toluene - d8 (Sur)	96.5	%		EPA 8260B	9/21/2005
4-Bromofluorobenzene (Sur)	112	%		EPA 8260B	9/21/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/21/2005
Toluene - d8 (Sur)	91.9	%		EPA 8260B	9/21/2005
4-Bromofluorobenzene (Sur)	102	%		EPA 8260B	9/21/2005

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Approved By:

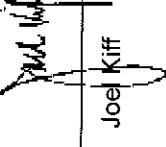
Joe Kiff



Project Name : Former Dave's Pit Stop #1

Project Number : ERA02.028-QM

Parameter	Spiked Sample	Sample Value	Spike Level	Spiked Sample Value	Units	Analysis Method	Date Analyzed	Duplicate Spiked Sample Percent Recov.	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Spiked Sample Percent Recov.	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Spiked Sample Percent Recov.	Relative Percent Diff.
Benzene	46037-01	<0.50	40.0	40.0	39.3	37.8	ug/L	EPA 8260B	9/21/05	98.3	94.6	3.85	70-130	25	
Toluene	46037-01	<0.50	40.0	40.0	37.2	35.1	ug/L	EPA 8260B	9/21/05	93.0	87.7	5.89	70-130	25	
Tert-Butanol	46037-01	83	200	200	289	293	ug/L	EPA 8260B	9/21/05	103	105	1.92	70-130	25	
Methyl-t-Butyl Ether	46037-01	11	40.0	40.0	47.1	45.7	ug/L	EPA 8260B	9/21/05	90.7	87.2	4.02	70-130	25	
Benzene	46037-05	<0.50	40.0	40.0	35.6	35.0	ug/L	EPA 8260B	9/21/05	89.1	87.4	1.92	70-130	25	
Toluene	46037-05	<0.50	40.0	40.0	34.4	33.4	ug/L	EPA 8260B	9/21/05	86.0	83.4	3.16	70-130	25	
Tert-Butanol	46037-05	<5.0	200	200	192	192	ug/L	EPA 8260B	9/21/05	96.0	95.8	0.268	70-130	25	
Methyl-t-Butyl Ether	46037-05	4.0	40.0	40.0	38.2	38.3	ug/L	EPA 8260B	9/21/05	85.3	85.6	0.339	70-130	25	
Benzene	46036-02	<0.50	40.0	40.0	39.8	39.2	ug/L	EPA 8260B	9/21/05	99.6	98.0	1.65	70-130	25	
Toluene	46036-02	<0.50	40.0	40.0	35.1	34.5	ug/L	EPA 8260B	9/21/05	87.7	86.2	1.74	70-130	25	
Tert-Butanol	46036-02	<5.0	200	200	186	184	ug/L	EPA 8260B	9/21/05	93.3	92.2	1.19	70-130	25	
Methyl-t-Butyl Ether	46036-02	0.73	40.0	40.0	43.2	44.4	ug/L	EPA 8260B	9/21/05	106	109	2.68	70-130	25	



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Approved By: Joel Kiff

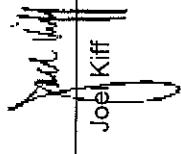
QC Report : Laboratory Control Sample (LCS)

Report Number : 46037
 Date : 9/26/2005

Project Name : Former Dave's Pit Stop #1
 Project Number : ERA02.028-QM

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	9/21/05	95.4	70-130
Toluene	40.0	ug/L	EPA 8260B	9/21/05	92.9	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/21/05	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/21/05	87.4	70-130
Benzene	40.0	ug/L	EPA 8260B	9/21/05	87.5	70-130
Toluene	40.0	ug/L	EPA 8260B	9/21/05	87.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/21/05	91.0	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/21/05	82.9	70-130
Benzene	40.0	ug/L	EPA 8260B	9/21/05	89.5	70-130
Toluene	40.0	ug/L	EPA 8260B	9/21/05	84.0	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/21/05	86.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/21/05	94.4	70-130

Approved By:
 KIFF ANALYTICAL, LLC
 2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800



APPENDIX D

CONCENTRATION VERSUS TIME TREND PLOTS

